



<110> INCYTE GENOMICS, INC.
TANG, Y. Tom; HILLMAN, Jennifer L.
YUE, Henry; ARVIZU, Chandra S.
BAUGHN, Mariah R.; BATRA, Sajeev

<120> HUMAN CHAPERONE PROTEINS

<130> PF-0595 USN

<140> US 09/787,678

<141> To Be Assigned

<150> PCT/US99/22027

<151> 1999-09-22

<150> US 60/183,022

<151> 1998-09-22

<150> US 09/158,642

<151> 1998-09-22

<150> US 09/294,698

<151> 1999-04-19

<150> US 60/172,232

<151> 1999-04-19

<150> US 09/233,291

<151> 1999-01-19

<150> US 60/172,216

<151> 1999-01-19

<160> 27

<170> PERL Program

<210> 1

<211> 452

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1556139CD1

<400> 1

Met	Ala	Ala	Ala	Ala	Leu	Arg	Ser	Gly	Trp	Cys	Arg	Cys	Pro	Arg
1				5					10					15
Arg	Cys	Leu	Gly	Ser	Gly	Ile	Gln	Phe	Leu	Ser	Ser	His	Asn	Leu
				20					25					30
Pro	His	Gly	Ser	Thr	Tyr	Gln	Met	Arg	Arg	Pro	Gly	Gly	Glu	Leu
				35					40					45
Pro	Leu	Ser	Lys	Ser	Tyr	Ser	Ser	Gly	Asn	Arg	Lys	Gly	Phe	Leu
				50					55					60
Ser	Gly	Leu	Leu	Asp	Asn	Val	Lys	Gln	Glu	Leu	Ala	Lys	Asn	Lys
				65					70					75
Glu	Met	Lys	Glu	Ser	Ile	Lys	Lys	Phe	Arg	Asp	Glu	Ala	Arg	Arg
				80					85					90
Leu	Glu	Glu	Ser	Asp	Val	Leu	Gln	Glu	Ala	Arg	Arg	Lys	Tyr	Lys

	95		100		105
Thr Ile Glu Ser	Glu Thr Val Arg Thr	Ser Glu Val Leu Arg Lys			
	110		115		120
Lys Leu Gly Glu	Leu Thr Gly Thr Val	Lys Glu Ser Leu His Glu			
	125		130		135
Val Ser Lys Ser	Asp Leu Gly Arg Lys	Ile Lys Glu Gly Val Glu			
	140		145		150
Glu Ala Ala Lys	Thr Ala Lys Gln Ser	Ala Glu Ser Val Ser Lys			
	155		160		165
Gly Gly Glu Lys	Leu Gly Arg Thr Ala	Ala Phe Arg Ala Leu Ser			
	170		175		180
Gln Gly Val Glu	Ser Val Lys Lys Glu	Ile Asp Asp Ser Val Leu			
	185		190		195
Gly Gln Thr Gly	Pro Tyr Arg Arg Pro	Gln Arg Leu Arg Lys Arg			
	200		205		210
Thr Glu Phe Ala	Gly Asp Lys Phe Lys	Glu Glu Lys Val Phe Glu			
	215		220		225
Pro Asn Glu Glu	Ala Leu Gly Val Val	Leu His Lys Asp Ser Lys			
	230		235		240
Trp Tyr Gln Gln	Trp Lys Asp Phe Lys	Glu Asn Asn Val Val Phe			
	245		250		255
Asn Arg Phe Phe	Glu Met Lys Met Lys	Tyr Asp Glu Ser Asp Asn			
	260		265		270
Ala Phe Ile Arg	Ala Ser Arg Ala Leu	Thr Asp Lys Val Thr Asp			
	275		280		285
Leu Leu Gly Gly	Leu Phe Ser Lys Thr	Glu Met Ser Glu Val Leu			
	290		295		300
Thr Glu Ile Leu	Arg Val Asp Pro Ala	Phe Asp Lys Asp Arg Phe			
	305		310		315
Leu Lys Gln Cys	Glu Asn Asp Ile Ile	Pro Asn Val Leu Glu Ala			
	320		325		330
Met Ile Ser Gly	Glu Leu Asp Ile Leu	Lys Asp Trp Cys Tyr Glu			
	335		340		345
Ala Thr Tyr Ser	Gln Leu Ala His Pro	Ile Gln Gln Ala Lys Ala			
	350		355		360
Leu Gly Leu Gln	Phe His Ser Arg Ile	Leu Asp Ile Asp Asn Val			
	365		370		375
Asp Leu Ala Met	Gly Lys Met Met Glu	Gln Gly Pro Val Leu Ile			
	380		385		390
Ile Thr Phe Gln	Ala Gln Leu Val Met	Val Val Arg Asn Pro Lys			
	395		400		405
Gly Glu Val Val	Glu Gly Asp Pro Asp	Lys Val Leu Arg Met Leu			
	410		415		420
Tyr Val Trp Ala	Leu Cys Arg Asp Gln	Asp Glu Leu Asn Pro Tyr			
	425		430		435
Ala Ala Trp Arg	Leu Leu Asp Ile Ser	Ala Ser Ser Thr Glu Gln			
	440		445		450
Ile Leu					

<210> 2

<211> 375

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2373576CD1

<400> 2

<210> 3

<211> 225

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3658451CD1

<400> 3

Met	Ala	Val	Arg	Ser	Leu	Trp	Ala	Gly	Arg	Leu	Arg	Val	Gln	Arg
1				5					10					15
Leu	Leu	Ala	Trp	Ser	Ala	Ala	Trp	Glu	Ser	Lys	Gly	Trp	Pro	Leu
				20					25					30
Pro	Phe	Ser	Thr	Ala	Thr	Gln	Arg	Thr	Ala	Gly	Glu	Asp	Cys	Arg
				35					40					45
Ser	Glu	Asp	Pro	Pro	Asp	Glu	Leu	Gly	Pro	Pro	Leu	Ala	Glu	Arg
				50					55					60
Ala	Leu	Arg	Val	Lys	Ala	Val	Lys	Leu	Glu	Lys	Glu	Val	Gln	Asp
				65					70					75
Leu	Thr	Val	Arg	Tyr	Gln	Arg	Ala	Ile	Ala	Asp	Cys	Glu	Asn	Ile
				80					85					90
Arg	Arg	Arg	Thr	Gln	Arg	Cys	Val	Glu	Asp	Ala	Lys	Ile	Phe	Gly
				95					100					105
Ile	Gln	Ser	Phe	Cys	Lys	Asp	Leu	Val	Glu	Val	Ala	Asp	Ile	Leu
				110					115					120
Glu	Lys	Thr	Thr	Glu	Cys	Ile	Ser	Glu	Glu	Ser	Glu	Pro	Glu	Asp
				125					130					135
Gln	Lys	Leu	Thr	Leu	Glu	Lys	Val	Phe	Arg	Gly	Leu	Leu	Leu	Leu
				140					145					150
Glu	Ala	Lys	Leu	Lys	Ser	Val	Phe	Ala	Lys	His	Gly	Leu	Glu	Lys
				155					160					165
Leu	Thr	Pro	Ile	Gly	Asp	Lys	Tyr	Asp	Pro	His	Glu	His	Glu	Leu
				170					175					180
Ile	Cys	His	Val	Pro	Ala	Gly	Val	Gly	Val	Gln	Pro	Gly	Thr	Val
				185					190					195
Ala	Leu	Val	Arg	Gln	Asp	Gly	Tyr	Lys	Leu	His	Gly	Arg	Thr	Ile
				200					205					210
Arg	Leu	Ala	Arg	Val	Glu	Val	Ala	Val	Glu	Ser	Gln	Arg	Arg	Leu
				215					220					225

<210> 4

<211> 304

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 4217610CD1

<400> 4

Met	Gly	Lys	Asp	Tyr	Tyr	Cys	Ile	Leu	Gly	Ile	Glu	Lys	Gly	Ala
1				5					10					15
Ser	Asp	Glu	Asp	Ile	Lys	Lys	Ala	Tyr	Arg	Lys	Gln	Ala	Leu	Lys
				20					25					30
Phe	His	Pro	Asp	Lys	Asn	Lys	Ser	Pro	Gln	Ala	Glu	Glu	Lys	Phe
				35					40					45
Lys	Glu	Val	Ala	Glu	Ala	Tyr	Glu	Val	Leu	Ser	Asp	Pro	Lys	Lys
				50					55					60
Arg	Glu	Ile	Tyr	Asp	Gln	Phe	Gly	Glu	Glu	Gly	Leu	Lys	Gly	Gly
				65					70					75
Ala	Gly	Gly	Thr	Asp	Gly	Gln	Gly	Gly	Thr	Phe	Arg	Tyr	Thr	Phe
				80					85					90
His	Gly	Asp	Pro	His	Ala	Thr	Phe	Ala	Ala	Phe	Phe	Gly	Gly	Ser

	95		100		105
Asn Pro Phe Glu Ile Phe Phe Gly Arg Arg Met Gly Gly Gly Arg					
	110		115		120
Asp Ser Glu Glu Met Glu Ile Asp Gly Asp Pro Phe Ser Ala Phe					
	125		130		135
Gly Phe Ser Met Asn Gly Tyr Pro Arg Asp Arg Asn Ser Val Gly					
	140		145		150
Pro Ser Arg Leu Lys Gln Asp Pro Pro Val Ile His Glu Leu Arg					
	155		160		165
Val Ser Leu Glu Glu Ile Tyr Ser Gly Cys Thr Lys Arg Met Lys					
	170		175		180
Ile Ser Arg Lys Arg Leu Asn Ala Asp Gly Arg Ser Tyr Arg Ser					
	185		190		195
Glu Asp Lys Ile Leu Thr Ile Glu Ile Lys Lys Gly Trp Lys Glu					
	200		205		210
Gly Thr Lys Ile Thr Phe Pro Arg Glu Gly Asp Glu Thr Pro Asn					
	215		220		225
Ser Ile Pro Ala Asp Ile Val Phe Ile Ile Lys Asp Lys Asp His					
	230		235		240
Pro Lys Phe Lys Arg Asp Gly Ser Asn Ile Ile Tyr Thr Ala Lys					
	245		250		255
Ile Ser Leu Arg Glu Ala Leu Cys Gly Cys Ser Ile Asn Val Pro					
	260		265		270
Thr Leu Asp Gly Arg Asn Ile Pro Met Ser Val Asn Asp Ile Val					
	275		280		285
Lys Pro Gly Met Arg Arg Arg Ile Ile Gly Tyr Gly Leu Pro Phe					
	290		295		300
Pro Lys Lys Ser					

<210> 5

<211> 570

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1977820CD1

<400> 5

Met Ser Arg Leu Glu Ala Lys Lys Pro Ser Leu Cys Lys Ser Glu					
1	5		10		15
Pro Leu Thr Thr Glu Arg Val Arg Thr Thr Leu Ser Val Leu Lys					
	20		25		30
Arg Ile Val Thr Ser Cys Tyr Gly Pro Ser Gly Arg Leu Lys Gln					
	35		40		45
Leu His Asn Gly Phe Gly Gly Tyr Val Cys Thr Thr Ser Gln Ser					
	50		55		60
Ser Ala Leu Leu Ser His Leu Leu Val Thr His Pro Ile Leu Lys					
	65		70		75
Ile Leu Thr Ala Ser Ile Gln Asn His Val Ser Ser Phe Ser Asp					
	80		85		90
Cys Gly Leu Phe Thr Ala Ile Leu Cys Cys Asn Leu Ile Glu Asn					
	95		100		105
Val Gln Arg Leu Gly Leu Thr Pro Thr Thr Val Ile Arg Leu Asn					
	110		115		120
Lys His Leu Leu Ser Leu Cys Ile Ser Tyr Leu Lys Ser Glu Thr					
	125		130		135
Cys Gly Cys Arg Ile Pro Val Asp Phe Ser Ser Thr Gln Ile Leu					

	140		145		150
Leu Cys Leu Val Arg Ser Ile Leu Thr Ser Lys Pro Ala Cys Met					
	155		160		165
Leu Thr Arg Lys Glu Thr Glu His Val Ser Ala Leu Ile Leu Arg					
	170		175		180
Ala Phe Leu Leu Thr Ile Pro Glu Asn Ala Glu Gly His Ile Ile					
	185		190		195
Leu Gly Lys Ser Leu Ile Val Pro Leu Lys Gly Gln Arg Val Ile					
	200		205		210
Asp Ser Thr Val Leu Pro Gly Ile Leu Ile Glu Met Ser Glu Val					
	215		220		225
Gln Leu Met Arg Leu Leu Pro Ile Lys Lys Ser Thr Ala Leu Lys					
	230		235		240
Val Ala Leu Phe Cys Thr Thr Leu Ser Gly Asp Thr Ser Asp Thr					
	245		250		255
Gly Glu Gly Thr Val Val Val Ser Tyr Gly Val Ser Leu Glu Asn					
	260		265		270
Ala Val Leu Asp Gln Leu Leu Asn Leu Gly Arg Gln Leu Ile Ser					
	275		280		285
Asp His Val Asp Leu Val Leu Cys Gln Lys Val Ile His Pro Ser					
	290		295		300
Leu Lys Gln Phe Leu Asn Met His Arg Ile Ile Ala Ile Asp Arg					
	305		310		315
Ile Gly Val Thr Leu Met Glu Pro Leu Thr Lys Met Thr Gly Thr					
	320		325		330
Gln Pro Ile Gly Ser Leu Gly Ser Ile Cys Pro Asn Ser Tyr Gly					
	335		340		345
Ser Val Lys Asp Val Cys Thr Ala Lys Phe Gly Ser Lys His Phe					
	350		355		360
Phe His Leu Ile Pro Asn Glu Ala Thr Ile Cys Ser Leu Leu Leu					
	365		370		375
Cys Asn Arg Asn Asp Thr Ala Trp Asp Glu Leu Lys Leu Thr Cys					
	380		385		390
Gln Thr Ala Leu His Val Leu Gln Leu Thr Leu Lys Glu Pro Trp					
	395		400		405
Ala Leu Leu Gly Gly Gly Cys Thr Glu Thr His Leu Ala Ala Tyr					
	410		415		420
Ile Arg His Lys Thr His Asn Asp Pro Glu Ser Ile Leu Lys Asp					
	425		430		435
Asp Glu Cys Thr Gln Thr Glu Leu Gln Leu Ile Ala Glu Ala Phe					
	440		445		450
Cys Ser Ala Leu Glu Ser Val Val Gly Ser Leu Glu His Asp Gly					
	455		460		465
Gly Glu Ile Leu Thr Asp Met Lys Tyr Gly His Leu Trp Ser Val					
	470		475		480
Gln Ala Asp Ser Pro Cys Val Ala Asn Trp Pro Asp Leu Leu Ser					
	485		490		495
Gln Cys Gly Cys Gly Leu Tyr Asn Ser Gln Glu Glu Leu Asn Trp					
	500		505		510
Ser Phe Leu Arg Ser Thr Arg Arg Pro Phe Val Pro Gln Ser Cys					
	515		520		525
Leu Pro His Glu Ala Val Gly Ser Ala Ser Asn Leu Thr Leu Asp					
	530		535		540
Cys Leu Thr Ala Lys Leu Ser Gly Leu Gln Val Ala Val Glu Thr					
	545		550		555
Ala Asn Leu Ile Leu Asp Leu Ser Tyr Val Ile Glu Asp Lys Asn					
	560		565		570

PF-0595 USN

<210> 6

<211> 559

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2722589CD1

<400> 6

Met	Ala	Thr	Ala	Leu	Ser	Glu	Glu	Glu	Leu	Asp	Asn	Glu	Asp	Tyr
1				5					10					15
Tyr	Ser	Leu	Leu	Asn	Val	Arg	Arg	Glu	Ala	Ser	Ser	Glu	Glu	Leu
				20					25					30
Lys	Ala	Ala	Tyr	Arg	Arg	Leu	Cys	Met	Leu	Tyr	His	Pro	Asp	Lys
				35					40					45
His	Arg	Asp	Pro	Glu	Leu	Lys	Ser	Gln	Ala	Glu	Arg	Leu	Phe	Asn
				50					55					60
Leu	Val	His	Gln	Ala	Tyr	Glu	Val	Leu	Ser	Asp	Pro	Gln	Thr	Arg
				65					70					75
Ala	Ile	Tyr	Asp	Ile	Tyr	Gly	Lys	Arg	Gly	Leu	Glu	Met	Glu	Gly
				80					85					90
Trp	Glu	Val	Val	Glu	Arg	Arg	Arg	Thr	Pro	Ala	Glu	Ile	Arg	Glu
				95					100					105
Glu	Phe	Glu	Arg	Leu	Gln	Arg	Glu	Arg	Glu	Glu	Arg	Arg	Leu	Gln
				110					115					120
Gln	Arg	Thr	Asn	Pro	Lys	Gly	Thr	Ile	Ser	Val	Gly	Val	Asp	Ala
				125					130					135
Thr	Asp	Leu	Phe	Asp	Arg	Tyr	Asp	Glu	Glu	Tyr	Glu	Asp	Val	Ser
				140					145					150
Gly	Ser	Ser	Phe	Pro	Gln	Ile	Glu	Ile	Asn	Lys	Met	His	Ile	Ser
				155					160					165
Gln	Ser	Ile	Glu	Ala	Pro	Leu	Thr	Ala	Thr	Asp	Thr	Ala	Ile	Leu
				170					175					180
Ser	Gly	Ser	Leu	Ser	Thr	Gln	Asn	Gly	Asn	Gly	Gly	Gly	Ser	Ile
				185					190					195
Asn	Phe	Ala	Leu	Arg	Arg	Val	Thr	Ser	Ala	Lys	Gly	Trp	Gly	Glu
				200					205					210
Leu	Glu	Phe	Gly	Ala	Gly	Asp	Leu	Gln	Gly	Pro	Leu	Phe	Gly	Leu
				215					220					225
Lys	Leu	Phe	Arg	Asn	Leu	Thr	Pro	Arg	Cys	Phe	Val	Thr	Thr	Asn
				230					235					240
Cys	Ala	Leu	Gln	Phe	Ser	Ser	Arg	Gly	Ile	Arg	Pro	Gly	Leu	Thr
				245					250					255
Thr	Val	Leu	Ala	Arg	Asn	Leu	Asp	Lys	Asn	Thr	Val	Gly	Tyr	Leu
				260					265					270
Gln	Trp	Arg	Trp	Gly	Ile	Gln	Ser	Ala	Met	Asn	Thr	Ser	Ile	Val
				275					280					285
Arg	Asp	Thr	Lys	Thr	Ser	His	Phe	Thr	Val	Ala	Leu	Gln	Leu	Gly
				290					295					300
Ile	Pro	His	Ser	Phe	Ala	Leu	Ile	Ser	Tyr	Gln	His	Lys	Phe	Gln
				305					310					315
Asp	Asp	Asp	Gln	Thr	Arg	Val	Lys	Gly	Ser	Leu	Lys	Ala	Gly	Phe
				320					325					330
Phe	Gly	Thr	Val	Val	Glu	Tyr	Gly	Ala	Glu	Arg	Lys	Ile	Ser	Arg
				335					340					345
His	Ser	Val	Leu	Gly	Ala	Ala	Val	Ser	Val	Gly	Val	Pro	Gln	Gly
				350					355					360
Val	Ser	Leu	Lys	Val	Lys	Leu	Asn	Arg	Ala	Ser	Gln	Thr	Tyr	Phe

	365		370		375
Phe Pro Ile His	Leu Thr Asp Gln Leu	Leu Pro Ser Ala Met	Phe		
	380		385		390
Tyr Ala Thr Val	Gly Pro Leu Val Val	Tyr Phe Ala Met His	Arg		
	395		400		405
Leu Ile Ile Lys	Pro Tyr Leu Arg Ala	Gln Lys Glu Lys Glu	Leu		
	410		415		420
Glu Lys Gln Arg	Glu Ser Ala Ala Thr	Asp Val Leu Gln Lys	Lys		
	425		430		435
Gln Glu Ala Glu	Ser Ala Val Arg Leu	Met Gln Glu Ser Val	Arg		
	440		445		450
Arg Ile Ile Glu	Ala Glu Glu Ser Arg	Met Gly Leu Ile Ile	Val		
	455		460		465
Asn Ala Trp Tyr	Gly Lys Phe Val Asn	Asp Lys Ser Arg Lys	Ser		
	470		475		480
Glu Lys Val Lys	Val Ile Asp Val Thr	Val Pro Leu Gln Cys	Leu		
	485		490		495
Val Lys Asp Ser	Lys Leu Ile Leu Thr	Glu Ala Ser Lys Ala	Gly		
	500		505		510
Leu Pro Gly Phe	Tyr Asp Pro Cys Val	Gly Glu Glu Lys Asn	Leu		
	515		520		525
Lys Val Leu Tyr	Gln Phe Arg Gly Val	Leu His Gln Val Met	Val		
	530		535		540
Leu Asp Ser Glu	Ala Leu Arg Ile Pro	Lys Gln Ser His Arg	Ile		
	545		550		555
Asp Thr Asp Gly					

<210> 7

<211> 1880

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1556139CB1

<400> 7

```

gccgaagcgg cggatgacgc aacccggccc cgccgcgaga aggtcacacg attctccaac 60
atggcgggcg cggccctgcg gagggtgctg tgccgctgtc caccgagatg cctcggcagt 120
ggaatccaat ttctttccag ccacaaccta ccccatgggt cgacctatca gatgcgccgg 180
ccgggcgagg agctgccact gtccaaatca tattcttctg gaaacagaaa aggctttctg 240
tccggcttgc tagataatgt caaacaagaa ttagccaaaa acaaagaaat gaaagaaagt 300
ataaaaaaat tccgtgacga ggccagaagg ctagaagaat cagacgtgct ccaggaggcc 360
agaaggaagt acaaaaccat cgagtcagaa accgtgcgga cgagcgaggt gctacggaag 420
aagcttgagg agctgacggg caccgtgaag gagagccttc acgaagtcag taaaagtgat 480
ctcggccgga aaatcaagga gggcgtggag gaagcagcca agacggccaa gcagtcggcc 540
gagtcggtat ccaaaggcgg ggagaagctg ggcaggacag cggccttcag agccctctcc 600
caggggggtg agtccgtgaa gaaggaaatt gacgacagcg tcctgggaca gaccggggccc 660
taccggaggg ccagcgact ccggaagaga acggagtttg cgggagataa gttcaaggag 720
gagaaagtgt ttgagccaaa cgaggaggcc ctgggggtcg tgctgcacaa ggactccaag 780
tggtaccagc agtgaagga cttcaaggag aacaacgtgg tgtttaaccg gttcttcgag 840
atgaagatga agtatgacga aagcgacaac gcgttcaccc gggcatcccg ggcccttacg 900
gacaaggtca ccgacttgct ggggggcctg ttctccaaga cagagatgtc ggaggtgctc 960
acggagatcc tccgggtgga cccggccttt gacaaggacc ggtttctgaa acagtgcgag 1020
aacgacatca tccccaatgt cctggaggcc atgatttctg gagagcttga cattctcaaa 1080
gactggtgct atgaagctac ttacagccag ctggcccacc ccatccagca ggccaaggca 1140
ctgggtctcc agttccattc tcgcatccta gacattgaca acgtcgacct ggccatgggc 1200
aagatgatgg agcaggggcc ggtgctgac atcaccttcc aggcacagct ggtgatggtg 1260

```



```

gtcaggaacc ccaaaggcga ggtggtggag ggtgacccgg acaaggtgct gcggatgctg 1320
tacgtgtggg cgctctgccg agaccaggac gagctcaacc cctacgcggc ctggcggtc 1380
ctggacatct cggcctccag caccgagcag attctctgag tgtggtgccg gagccaggta 1440
gccccggcct gggtcacag gcacagaggc accgcaacac cacctgcggc aactccagac 1500
ctctgggaac aagactgcgg gctctgcccc cagctctgcc aggacggctg caagaccagc 1560
tggccccgga ggggacaacg ggctgttgcg ggtgcgcggc agctggagac actccccgc 1620
agggccaacc cctgccctgt tgctctgccc tgcaggggtc ccggcgctg gtcacctggg 1680
gtgcacacag gtcacacagt gccaagaggc cccagggccc agggactccc cccacagcag 1740
ggtgggaccc gggacccgcg gctcagtggc ccgctagcca cgtcagccaa gccactttag 1800
gtccattttt taattttaac agtgctcttc catcttgtgc ataagcctga gatttgaaa 1860
gaataaaaca ccggaattga
1880

```

<210> 8

<211> 1764

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2373576CB1

<400> 8

```

cccctccctg gttccgcgtt ctggttccgc catggaatcc aacaaggatg aagctgagcg 60
ctgtatcagc atcgccctca aggccatcca gagcaaccag cccgaccggg cgctccgctt 120
cctggagaag gcacagcggc tgtatccyac gccgcgagtt cgcgcctga ttgagtcctt 180
caaccagaaa ccacagactg ccggtgacca acccccaccc acagacacaa cccatgccac 240
ccacaggaaa gcaggtggga ccgatgcccc ctgcggcaac ggtgaagctg gaggagagag 300
caccaaaggc tacactgcag aacaggttgc agctgtgaaa agggtaagc aatgtaaaga 360
ttactatgag atcctggggg tgagcagagg ggctctcgat gaggacctga agaaggccta 420
ccgcagactg gccctcaaat tccaccaga caagaaccac gcacctggtg ccactgaagc 480
cttcaaagcc attggcacag catatgcggt actcagcaac ccggagaaga ggaagcagta 540
tgaccagttc ggcgatgaca agagccaggc ggccccgcac ggccatgggc atggggattt 600
ccaccgtggc tttgaggccg acatctcccc tgaagacctc ttcaacatgt tctttggcgg 660
cggcttccct tctagtaacg tccacgtcta cagcaacggc cgcattgcgt atacctacca 720
gcaaaggcag gaccgcaggg acaaccaggg tgatggcggg ctaggggtgt ttgtgcagct 780
gatgcctatc ctcatcctga ttctcgtctc agctctcagc cagctcatgg tctccagtc 340
acctacagt ctgagtccaa gaccgtccgt gggccacatc cacaggcgag tcaactgacca 900
cctgggtgtc gtctactatg tgggagacac tttctccgaa gagtacacag gctccagcct 960
caaaacagtc gagcggaatg tggaagatga ttatatgcc aacctccgga acaactgctg 1020
gaaggagaag cagcagaagg aaggcttgct gtaccgggca cgctactttg gcgacacaga 1080
tatgtaccac agagcacaga agatgggcac cccagctgc agccgactgt cagaggtgca 1140
ggcctccctg catggatagt cctgggccag ccacaccacc gaggtccaaa ctatgaaatc 1200
cctggagaat ttttgggtgac atgcactgag ccaaggtgat ggactgtata tttgagaaa 1260
gacaaacaaa gaaacaaaat taaaatggaa ttggaggccg aacgctgcac agctgccctc 1320
tctctcacc cagtaaatgca gaaagctctt aggcagaca gaaaacctgc catggggctg 1380
cttccctccc tcgcagggtt ggcgagggtt ccgcctgcc tctctcctag gatacagaaa 1440
ccatggcaac gaaagtagaa tgtaaaactc gcagcagata tcagtgggaa gggctggggg 1500
agggggcacc cagctgcctt tctccctca caggagccac caccagccac ctctcaggag 1560
aagccagagg ccctggccaa agataggagg aagaaagaga actctccata gaatgtaatt 1620
tatagatgcg tgtatatgta tatatatcta tttatatgta aataggcata tatgaagata 1680
tatatatata gtctactttt taaactctgc agggatttgg ttaagctgtt gagctgattt 1740
cttccatgtc ttagagaatc gaga
1764

```

<210> 9

<211> 776

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID N : 3658451CB1

<400> 9

```

tggaaacatg gccgtacggg cgctgtgggc gggccggctg cgggtgcagc gcctactggc 60
ctggagtgcc gcgtgggaga gcaagggatg gccgcttcca ttcagcactg ccaccagag 120
aactgctggt gaggactgcc gttctgagga cctcctgat gagcttgggc cccctcttgc 180
tgaacgagcc ttaagggtaa aagctgttaa actggagaaa gaagtccaag atttaacagt 240
gagataccag agagctatag ctgattgtga aaacataagg aggcgaacc agagatgtgt 300
ggaagacgcc aagatatttg gaatccagag tttctgtaag gacttgggtg aggtggctga 360
cattttggag aagactacag agtgcatttc tgaagaatcg gacctgagg accaaaagct 420
cactctggag aaggtcttcc gagggttgtt gcttttagaa gcaaagctga aaagtgtgtt 480
tgccaagcat ggcctggaga aactgacacc cattggtgac aaatatgacc cccatgagca 540
tgaactcatc tgtcatgtgc cagctgggtg tggggtgcag cctggcaccg tggcattagt 600
aagacaagat ggctacaaa ttcatggccg caccattagg ctgcccagag tggaagtggc 660
agtggagtct cagagaagac tgtgaagagg ccacaggaa ctggatgttc tcccagagcg 720
cagtcaccta tgtttctttt atttattaaa ctaggtttgt attgtaaaaa aaaaaa 776

```

<210> 10

<211> 1426

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 4217610CB1

<220>

<221> unsure

<222> 1334, 1369, 1387, 1393, 1396, 1407, 1412-1413, 1418

<223> a, t, c, g, or other

<400> 10

```

ggaggtgtg tctgtgttag tgtatattta tctgtaagtg agccgttggg gaaggattga 60
atacagagac gctgtctgct tgctgcctta agacagctag ctgaattgct gattaacttt 120
taaaataccc agcttggttt atttttctta gaatctgttg ctaagactgg ggacgtgtt 180
ttcttttaca aagggaaatc taagttaatt tcaaggcatt cgaaatgggg aaagactatt 240
attgcatttt gggaattgag aaaggagcct cagatgaaga tattaataag gcttaccgaa 300
aacaagccct caaatttcat ccggacaaga acaaatctcc tcaggcagag gaaaaattta 360
aagaggtcgc agaagcttat gaagtattga gtgatcctaa aaagagagaa atatatgatc 420
agtttgggga ggaagggttg aaaggaggag caggaggtag tgatggacaa ggaggtagct 480
tccggtacac ctttcatggc gatcctcatg ctacatttgc tgcatttttc ggagggtcca 540
acccctttga aattttcttt ggaagacgaa tgggtggtgg tagagattct gaagaaatgg 600
aaatagatgg tgatcctttt agtgcctttg gtttcagcat gaatggatat ccaagagaca 660
ggaattctgt ggggccatcc cgcctcaaac aagatcctcc agttattcat gaacttagag 720
tatcacttga agagatatat agtggttgta ccaaacggat gaagatttct cgaaaaaggc 780
taaacgctga tggaaggagt tacagatctg aggacaaaat tcttaccatt gagattaaaa 840
aagggtggaa agaaggcacc aaaattactt ttccaagaga aggagatgaa acaccaaata 900
gtattccagc agacattgtt tttatcatta aagacaaaga tcatccaaaa tttaaaaggg 960
atggatcaaa tataatttat actgctaaaa ttagtttacg agaggcattg tgtggctgct 1020
caattaatgt accaactctg gatggaagaa acatacctat gtcagtaaat gatattgtga 1080
aaccggaat gaggagaaga attattggat atgggctgcc atttccaaaa aaatcctgac 1140
caacgtggtg accttctaata agaatttgag gtgtccttcc cagatactat atcttcttca 1200
tccaaagaag tacttaggaa acatcttctc gcctcataga atgaagaact ttgttacaca 1260
tatttttgata agggcacctg gaaaatataa aagggcctgg tagggtttac ttgatgtagg 1320
atgtggatcc ctgnataaaa ggtgtggtaa aatccctttt tgagggggnc caattaaaat 1380
tccatgnata gngcngggg gccaaantaa annggggnaa aagggg 1426

```

<210> 11

<211> 2776

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1977820CB1

<400> 11

```

cgaaggttgt cgggatccgc ggcagcagcg gctgcttgag atctgtttct ggggcctctg 60
gcggtggcgg cctggggcgg cgcgacggct ggtgcgcagg tacactgatg ctgaagtact 120
atgagccttc ggaacttggt gagagactac aaagttttgg ttgttatggt ccctttagtt 180
gggctcatat atttggggtg gtacagaatc aaaagcagcc ctgttttcca aatacctaaa 240
aacgacgaca ttcttgagca agatagtctg ggactttcaa atcttcagaa gagccaaatc 300
caggggaagt agcaggcttg caatcttcag gtaaaagaagc agctttgaat ctgagcttca 360
tatcgaaaga agagatgaaa aataccagtt ggattagaaa gaactggctt cttgtagctg 420
ggatatcttt cataggtgtc catcttggaa catacttttt gcagaggtct gcaaagcagt 480
ctgtaaaatt tcagtctcaa agcaaacana agagtattga agagtgaagt aaaataaata 540
tttggaaatta ctaatttgtc attaaatcat tctatgctga ttagcttcat aaacattgaa 600
ctttttgatt ttatagccac aatgctgcat attcatactt taattcctaa agaataattt 660
ttaatgttaa aacgtgataa tgcaataaat agaaaaatgt ggtttacaaa ataaaaacgg 720
tcttcactag ttaccacctg aagtaagatg tctcgtttgg aagctaagaa gccatcattg 780
tgtaagagtg aaccactgac aactgagaga gtcaggacca cactttctgt cttgaaaaga 840
attgtaecat catgctatgg cccctcaggt aggtggaagc agctgcacaa tggcttttga 900
ggttacgtgt gtacaacctc acagtcctca gctctgctca gtcacctttt ggtcacacat 960
cccatcttaa agatcctgac agcctccata cagantcatg tgtcaagctt cagtgattgt 1020
ggcttatcca cagctattct ttgctgcaac ctgattgaaa atgttcagag attaggtctg 1080
acaccacca ctgtcattag attaaataaa catccttga gtctttgcat cagttatctc 1140
cagctctgaga cctgtgtgtg tctgaatccca gtggacttta gtagtactca gatcctcctt 1200
ggttttggtc gtgcttatatt aacaagtaaa cctgcctgta tgctcaccag aaaggaaaca 1260
gagcatgtca gtgctttgat cctgagagcc tttttgctta caattccaga aaatgctgaa 1320
ggccacatca ttttaggaaa gagtttaatt gtacctttaa aaggccaag agttatagat 1380
cccactgtat tacctgggat actcattgaa atgtcagaag ttcaattaat gaggtatta 1440
cctatcaaaa aatcaactgc cctcaaggtg gcaacttttt gtacaacttt atccggagac 1500
acttctgaca ctggagaagg aactgtggtg gtcagttatg gggtttctct tgaaaatgca 1560
gtcttgacc agctgcttaa cctaggaagg cagctaatac gtgaccacgt agatcttgtc 1620
ctgtgccaaa aagttatata tccatctttg aagcagtttc tcaatatgca tctgtattatt 1680
gccatagaca gaattggagt gactctgatg gaacccctga ctaaaatgac aggaacacag 1740
cctattggat ccctaggctc aatatgtcct aatagttatg gaagtgtgaa agatgtgtgc 1800
actgcaaaat ttggctccaa acattttttt catcttattc ctaatgaagc aacaatctgc 1860
agcttgcttc tctgcaacag aaatgacact gcctgggatg agctgaagct cacgtgtcag 1920
acggcactgc atgtcctgca gttaacactc aaggaacat gggctttgtt gggaggtggc 1980
tgtactgaaa ctcatctggc tgcataatc agacacaaga ctcaaacga ccagaaaagc 2040
attctcaaa atgatgaatg tactcaaaca gaacttcaat taattgctga agcattttgc 2100
agtgccctag aatctgttgt tggctcttta gaacatgatg gaggtgaaat tctcactgac 2160
atgaagtatg gacacctttg gtcagttcag gcagattctc cctgtgttgc taactggcca 2220
gatttgcttt cacagtgtgg ctgtggatta tacaatagcc aggaagaact caactggctc 2280
ttcttaagaa gcacacgtcg tccatttgtg ccacaaagct gccttcaca tgaagctgtg 2340
ggctcagcca gcaacctgac cttggactgt ttgactgcaa agcttagtgg cctacaggtg 2400
gctgtagaga cagccaattt gattttggat ctttcatatg ttattgaaga taaaaactaa 2460
gagaatagca tggtcgtatt acaagagaaa caaataaact agtctgttgg caattgagaa 2520
aaattgtgag tgtatttgtt ttctcccaaa gccctgttct acatatttgg acaaatgact 2580
cataaaatta tagatacact tatttaggaa aaaaggtgat tctgtaatgg aaatgccatg 2640
aaacaataaa aatatgaagc attatttatt taaaaatatt atagttatct tagggattct 2700
atactggctg ctgtacattg ttctaaattt ttgttatgtt ggcacatctt tgagagcaaa 2760
caaataaaaa agatct 2776

```

<210> 12

<211> 3213

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2722589CB1

<400> 12

```

gaaagggttgc gaagatggcg acggccttga gcgaggagga gctggacaat gaagactatt 60
actcgttgc gaacgtgccc agggaggcct ctctgaaga gctgaaagct gcctaccgga 120
ggctctgtat gctctaccat ccagacaagc acagagaccc agagctcaag tcacaggcgg 180
aacgactgtt taaccttgtt caccaggctt atgaagtgtc tagtgacccc caaaccaggg 240
ccatctatga tatatatggg aagagaggac tggaaatgga aggatgggag gttgtggaaa 300
ggaggagAAC ccctgctgaa attcgagagg agtttgagcg gctgcagaga gagagagaag 360
agaggagatt gcagcagcga accaatccca agggaacgat cagcgttggg gtagatgccA 420
ccgacctttt tgatcgctat gatgaggagt atgaagatgt gtcggycagt agctttccgc 480
agattgaaat taataaaatg cacatatccc agtccattga ggcaccttg acagcgacag 540
acacagccat cctctctgga agcctctcaa ccagaatgg aaatggagga ggttccatta 600
actttgcgct cagacgagta acttcggcaa agggatgggg agagttggaa tttggagctg 660
gagacctaca ggggcctttg ttcgggtctc agctgttccg taatctcaca ccaagatgct 720
ttgtgacaac aaactgtgct ctgcagtttt catcccggtg aatccgaccc ggcctgacca 780
ctgtcctagc tcggaacctA gacaagaaca ccgtgggcta cctgcagtgg cgatggggta 840
tccagtcagc catgaacact agcatcgtec gagacactaa aaccagccac ttcactgtgg 900
ccctgcagct gggaaatccct cactcctttg cactgatcag ctatcagcac aaattccaag 960
atgacgatca gactcgtgtg aaaggatccc tcaaagcagg ctctcttggg acggtgggtg 1020
agtacggagc tgagaygaag atctccaggc acagcgtttt ggggtgcagct gtcagcgttg 1080
gagttccaca gggcgtttct ctcaaatgta agctcaacag ggcagtcag acatacttct 1140
tccctattca cttgacggac cagcttctgc ccagcgccat gttctatgcc accgtggggc 1200
ctctagtggg ctacttttgc atgcacgtc tgatcatcaa accctacctc agggctcaga 1260
aagagaagga attggagaag cagagggaaa gcgcgcgccac cgatgtgctg cagaagaagc 1320
aagagycgga gtccgctgtc cggctgatgc aggaatctgt ccgaaggata attgagycag 1380
aagaytccag aatgggcctc atcatcgta atgctgtgta cgggaagttt gtcaatgaca 1440
agagcaggaa gagcgagaag gtgaagytga ttgacgtgac tgtgcccccg cagtgcctgg 1500
tgaaggactc gaagctcatc ctacaggagg cctccaaggc tgggctgcct ggcttttatg 1560
acccgtgtgt gggggaagag aagaacctga aagtgtctta tcagttccgg ggcgtcctgc 1620
atcaggtgat ggtgctggac agtgaggccc tccgataacc aaagcagtc cacaggatcg 1680
atacagatgg ataaactgcc aagaaccaga tttttaaaag gccgcaaaaa atcttttctt 1740
gggagtctac aaatttggaa atgaaaaaac ccagacatca gatgttttta ttttatatta 1800
ttattataga agtggttacc attatcaatt atgtgaaggg acatgcagac accccagctt 1860
ttgaggtgtc tgggggtagg actgaggcag cccactggg aaccagactg cagcctggcc 1920
catggctgtt tcccaagga tcagttcctg gaggggaagg ctctggccct gactccgctg 1980
tgtcccagc acacgtgctg accgcagccc gccgcctgt agttcttggc tgggtctgga 2040
ggtgtctgtg gagcaccctg cctcaccac aggagcgtga gccacttctg cagtcacgc 2100
tgaacatggg aaacaacctg aaaagcaggc aggcctccc gtcayggagc ctctgctgtg 2160
ctggcttccc atgaccacct cctcctgctg aaatattact gcttgaatct ggagcagatt 2220
gcgggtttat aaaactgctt tttatctgag aacaaacggg tttggaaatt agtcgtctt 2280
tttcccact cccagagctg ctcaagtcac tccaccggcc cctcggctt gggacagggt 2340
agtgtaaact ccgatcccag ggctagccc tgacacaggt ggcttcccg atcccgggtg 2400
gaaaacgccc tgccaccagc gggcttgagc tggcctgtgt cctccaccg cctgcaccac 2460
ccacctccag agtgagtg cgggcaaggg cagctcaaga ggacaggacc aggcgttgg 2520
caagacatca gacacacca acccaaaggc gtggaccca ggcggggccc gtggtacca 2580
gcaggtggca ctgcagctcc ccgctcctgc aggtccagcg tctcacagg aacaccaggg 2640
cctgtgtctc ggagccttcc ttcagacct tctccacgt gccacttgg gatgcagaat 2700
gcagcggagc taggaccccc tccacggcct ggacctcggc tgcagtaaag ttacgtgagg 2760
cctgtctctc ggggcctgga agtggcagcc atcagttgct cttgctgacc cctcggagca 2820
agcgccgcac agtggtgtggc tgagacagct ggcgggggg gccccaagct gcgcggcct 2880
ccagcccacc cacagctgtt gctgaagtca ggccaacct cccagcactg gtatctgagt 2940
aacggctaag aacctcctt ctctggtttt gaaaagcagt tcgggtgtc caattctgta 3000
acattcatct ccatttttta aaaaaggttt ctctgacggc cccacggccc gagccgcggt 3060

```

gagcgtcgtg ttgcatgagc ctgggccccg ggcttcccgt gcgcctctgc cgcaggtgct 3120
tctgggcacc catcctctgc gtttcatttg cagtcgactg tacagaaggc actcaccaca 3180
ataaaccttt cctgaaagca gaaaaaaaaa aaa 3213

<210> 13
<211> 215
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1556139H1

<220>
<221> unsure
<222> 25, 27
<223> a, t, c, g, or other

<400> 13
gccgaagcgg cggatgacgc aaccngnccg cgccgcgaga aggtcacacg attctccaac 60
atggcggcgg cggccctgcg gaggggctgg tgccgctgtc cacggagatg cctcggcagt 120
ggaatccaat ttctttccag ccacaaccta ccccatgggt cgacctatca gatgcgccgg 180
ccgggcggag agctgccact gtccaaatca tattc 215

<210> 14
<211> 392
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1594241F1

<220>
<221> unsure
<222> 480, 489, 498, 503, 507, 518, 553, 576, 580
<223> a, t, c, g, or other

<400> 14
aaccgggccc cgccgcgaga aggtcacacg attctccaac atggcggcgg cggccctgcg 60
gaggggctgg tgccgctgtc cacggagatg cctcggcagt ggaatccaat ttctttccag 120
ccacaaccta ccccatgggt cgacctatca gatgcgccgg ccgggcggag agctgccact 180
gtccaaatca tattcttctg gaaacagaaa aggtttctg tccggcttgc tagataatgt 240
caaacaagaa ttagccaaaa acaaagaaat gaaagaaagt ataaaaaat tccgtgacga 300
ggccagaagg ctagaagaat cagacgtgct ccaggaggcc agaaggaaat acaaaaccat 360
cgagtcagaa accgtgcgga cgagcgaggt gctacggaag aagcttgggg agctgacggg 420
caccgtgaag gagagcttca cgaagtcagt aaaagtgatc tcggccggaa aatcaaggan 480
ggcgtggang aagcagcnaa ganggcnaag cagtcggncg agtcgtattc caaaggcggg 540
gagaactggg cangacagcg gctttcagag cctctnccan ggggtggaat cc 592

<210> 15
<211> 296
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3816577H1

<220>
 <221> unsure
 <222> 5, 46, 69, 73, 113, 126, 248, 257
 <223> a, t, c, g, or other

<400> 15
 gctanaagaa tcagacgtgc tccaggaggc cagaaggaaa tacaanacca tcgagtcaga 60
 aaccgtgcng acngagccga ggtgctacgg aagaagcttg gggagctgac ggnccaccgtg 120
 aagganagtc ttcacgaagt cagtaaaagt gatctcggcc ggaaaatcaa ggagggcggtg 180
 gaggaagcag ccaagacggc caagcagtcg gccgagtcgg tatccaaagg cgggggagaag 240
 ctgggcanga cagcggcnctt cagagccctc tcccaggggg tggagtccgt gaagaa 296

<210> 16
 <211> 571
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 865064R1

<220>
 <221> unsure
 <222> 567
 <223> a, t, c, g, or other

<400> 16
 tgggacagac cggggccctac cggaggcccc agcgactccg gaagagaaag gaggtttgagg 60
 gagataagtt caaggaggag aaagtgtttg agccaaacga ggaggccctg ggggtcgtgc 120
 tgcacaagga ctccaagtgg taccagcagt ggaaggactt caaggagaac nacgtgggtg 180
 ttaaccggtt cttcgagatg aagatgaagt atgacgaaag cgacaacggc ttcattccggg 240
 catcccgggc ccttacggac aaggtcaccc acttgctggg gggcctgttc tccaagacag 300
 agatgtcggg ggtgctcacg gagatcctcc ggggtggacc ggcctttgac aaggaccggt 360
 ttctgaaaca gtgcgagAAC gacatcatcc ccaatgtcct ygaggccatg atttctggag 420
 agcttgacat tctcaaagac tgggtgctatg aagctactta cagccagctg gccacacca 480
 tccagcaggc caaggcactg ggtctccagt tccattctcg catcctagac attgacaacg 540
 tcgacctggc catgggcaag atgatgnagc g 571

<210> 17
 <211> 563
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1469448F1

<220>
 <221> unsure
 <222> 411, 437, 502, 533, 535, 547
 <223> a, t, c, g, or other

<400> 17
 acaagggtcac cgacttgctg gggggcctgt tctccaagac agagatgtcg gaggtgctca 60
 cggagatcct ccgggtggac ccggcctttg acaaggaccg gtttctgaaa cagtgcgaga 120
 acgacatcat cccaatgtc ctggaggcca tgatttctgg agagcttgac attctcaaag 180
 actgggtgcta tgaagctact tacagccagc tggccccacc catccagcag gccaaggcac 240
 tgggtctcca gttccattct cgcacccatg acattgacaa cgtcgacctg gccatgggca 300
 agatgatgga gcagggggccg gtgctgatca tcaccttcca ggcacagctg gtgatgggtg 360

PF-0595 USN

```
tcaggaaccc caaaggcgag gtggtggagg gtgaccgga caaggtgtgc ngatgctgta 420
cgtgtggggc ctctgchgag acaggacgag tcaacccta cgcggcctgg cggctcctgg 480
acatctcggc ctccagcacc gngaaattct cttgaattgt ggtgccggag cangntagcc 540
ccggctnngg tatcaggcaa aaa 563
```

<210> 18

<211> 329

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1576728T1

<400> 18

```
gcacccgcaa cagcccggtg tccccctccc ggccagctgg tcttgagcc gtccctggcag 60
agctgggggc agagcccgca gtctgttcc cagaggtctg gagttgccgc agtgggtgtg 120
cgggtgcctct gtgcctgatg acccaggccg gggctacctg gctccggcac cacactcaga 180
gaatctgctc ggtgctggag gccgagatgt ccaggagccg ccaggccgcg taggggttga 240
gctcgtcctg gtctcggcag agcgcacaca cgtacagcat ccgcagcacc ttgtccgggt 300
cacctccaac aactcgcttt ggggttcgg 329
```

<210> 19

<211> 215

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1556139H1

<220>

<221> unsure

<222> 25, 27

<223> a, t, c, g, or other

<400> 19

```
gccgaagcgg cggatgacgc aaccnngccg cgccgcgaga aggtcacacg attctccaac 60
atggcggcgg cggccctgcg gagtggctgg tgccgctgtc cacggagatg cctcggcagt 120
ggaatccaat ttctttccag ccacaaccta ccccatgggt cgacctatca gatgcgccgg 180
ccgggcggag agctgccact gtccaaatca tatte 215
```

<210> 20

<211> 592

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1594241F1

<220>

<221> unsure

<222> 480, 489, 498, 503, 507, 518, 553, 576, 580

<223> a, t, c, g, or other

<400> 20

```
aaccggggcg cgccgcgaga aggtcacacg attctccaac atggcggcgg cggccctgcg 60
gagtggctgg tgccgctgtc cacggagatg cctcggcagt ggaatccaat ttctttccag 120
```

```
ccacaaccta ccccatgggt cgacctatca gatgcgccgg ccggggcggag agctgccact 180
gtccaaatca tattcttctg gaaacagaaa aggctttctg tccggcttgc tagataatgt 240
caaacaagaa ttagcctaaa acaaagaaat gaaagaaagt ataaaaaaat tccgtgacga 300
ggccagaagg ctagaagaat cagacgtgct ccaggaggcc agaaggaaat acaaaaccat 360
cgagtcagaa accgtgcgga cgagcgaggt gctacggaag aagcttgggg agctgacggg 420
cacctggaag gagagcttca cgaagtcagt aaaagtgatc tcggccggaa aatcaaggan 480
ggcgtggang aagcagcnaa ganggcnaag cagtcggncg agtcgtattc caaaggcggg 540
gagaactggg cangacagcg gctttcagag cctctnccan ggggtggaat cc 592
```

<210> 21

<211> 296

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3816577H1

<220>

<221> unsure

<222> 5, 46, 59, 73, 113, 126, 248, 257

<223> a, t, c, g, or other

<400> 21

```
gctanaagaa tcagacgtgc tccaggaggc cagaaggaaa tacaanacca tcgagtcaga 60
aacctgtcng acngagccga ggtgctacgg aagaagcttg gggagctgac ggnccacgtg 120
aagganagtc ttcacgaagt cagtaaaagt gatctcggcc ggaaaatcaa ggaggggcgtg 180
gaggaagcag ccaagacggc caagcagtcg gccgagtcgg tatccaaagg cggggagaaag 240
ctgggcanga cagcggncct cagagccctc tcccaggggg tggagtcagt gaagaa 296
```

<210> 22

<211> 571

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 865064R1

<220>

<221> unsure

<222> 567

<223> a, t, c, g, or other

<400> 22

```
tgggacagac cggggccctac cggaggcccc agcgactccg gaagagaacg gagtttgagg 60
gagataagtt caaggaggag aaagtgtttg agccaaacga ggaggccctg ggggtcgtgc 120
tgcacaagga ctccaagtgg taccagcagt ggaaggactt caaggagaa aacgtggtgt 180
ttaaccggtt cttcgagatg aagatgaagt atgacgaaag cgacaacgag ttcattccggg 240
catcccgggc ccttacggac aaggtcaccg acttgcctgg gggcctgttc tccaagacag 300
agatgtcgga ggtgctcacg gagatcctcc ggggtggacc ggcctttgac aaggaccggt 360
ttctgaaaca gtgcgagaa gacatcatcc ccaatgtcct ggaggccatg atttctggag 420
agcttgacat tctcaaagac tgggtgctatg aagctactta cagccagctg gccacccca 480
tccagcaggc caaggcactg ggtctccagt tccattctcg catcctagac attgacaacg 540
tcgacctggc catgggcaag atgatgnagc g 571
```

<210> 23

<211> 563

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1469448F1

<220>

<221> unsure

<222> 411, 437, 502, 533, 535, 547

<223> a, t, c, g, or other

<400> 23

```

acaagggtcac cgacttgctg gggggcctgt tctccaagac agagatgtcg gaggtgctca 60
cggagatcct ccgggtggac ccggcctttg acaaggaccg gtttctgaaa cagtgcgaga 120
acgacatcat cccaatgtc ctggaggcca tgatttctgg agagcttgac attctcaaag 180
actggtgcta tgaagctact tacagccagc tggcccaccc catccagcag gccaaggcac 240
tgggtctcca gttccattct cgcattctag acattgacaa cgtcgacctg gccatgggca 300
agatgatgga gcagggggccg gtgctgatca tcaccttcca ggcacagctg gtgatgggtg 360
tcaggaaccc caaaggcgag gtggtggagg gtgacccgga caaggtgtgc ngatgctgta 420
cgtgtgggag ctctgcnag acaggacgag tcaaccctta cgcggcctgg cggctcctgg 480
acatctcggc ctccagcacc gngaaattct cttgaattgt ggtgccggag cangntagcc 540
ccggctnngg tatcaggcaa aaa 563

```

<210> 24

<211> 329

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1576728T1

<400> 24

```

gcacccgcaa cagcccggtg tccctccccg ggccagctgg tcttgagcc gtcctggcag 60
agctgggggc agagcccgca gtcttggtcc cagaggtctg gagttgccgc agtgggtgtg 120
cgggtgcctct gtgctgatg acccaggccg gggctacctg gtcgccgcac cacactcaga 180
gaatctgctc ggtgctggag gccgagatgt ccaggagccg ccaggccgcg taggggttga 240
gctcgtcctg gtctcggcag agcggccaca cgtacagcat ccgcagcacc ttgtccgggt 300
cacctccaac aactcgcttt ggggttcgg 329

```

<210> 25

<211> 452

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> GenBank ID No: g2351410

<400> 25

```

Met Ala Ala Ala Arg Leu Arg Gly Gly Trp Cys Arg Cys Pro Arg
  1          5          10          15
Arg Cys Leu Gly Ser Gly Ile Gln Phe Leu Ser Ser His Asn Leu
          20          25          30
Pro His Gly Ser Ser Tyr Gln Ile Ser Arg Pro Gly Arg Glu Leu
          35          40          45
Thr Leu Thr Lys Ser Tyr Ser Ser Gly Ser Arg Lys Gly Phe Leu
          50          55          60
Ser Gly Leu Leu Asp Asn Ile Lys Gln Glu Leu Ala Lys Asn Lys

```

				65					70					75
Glu	Met	Lys	Glu	Ser	Ile	Lys	Lys	Phe	Arg	Asp	Glu	Ala	Lys	Lys
				80					85					90
Leu	Glu	Glu	Ser	Asp	Ala	Leu	Gln	Glu	Ala	Arg	Arg	Lys	Tyr	Lys
				95					100					105
Ser	Ile	Glu	Ser	Glu	Thr	Val	Arg	Thr	Ser	Glu	Ala	Ile	Lys	Lys
				110					115					120
Lys	Leu	Gly	Glu	Leu	Thr	Gly	Thr	Val	Lys	Glu	Ser	Leu	Asp	Glu
				125					130					135
Val	Ser	Lys	Ser	Asp	Leu	Gly	Arg	Lys	Ile	Lys	Glu	Gly	Val	Glu
				140					145					150
Glu	Ala	Ala	Arg	Thr	Ala	Lys	Gln	Ser	Ala	Glu	Ser	Val	Ser	Lys
				155					160					165
Ser	Gly	Glu	Lys	Leu	Gly	Lys	Thr	Ala	Ala	Phe	Lys	Ala	Ile	Ser
				170					175					180
Gln	Gly	Val	Glu	Ser	Val	Lys	Lys	Glu	Leu	Asp	Glu	Ser	Val	Leu
				185					190					195
Gly	Gln	Thr	Gly	Pro	Tyr	Arg	Arg	Pro	Glu	Arg	Leu	Arg	Lys	Arg
				200					205					210
Thr	Glu	Phe	Ala	Gly	Ala	Lys	Phe	Lys	Glu	Ser	Lys	Val	Phe	Glu
				215					220					225
Ala	Asn	Glu	Glu	Ala	Leu	Gly	Val	Val	Leu	His	Lys	Asp	Ser	Lys
				230					235					240
Trp	Tyr	Gln	Gln	Trp	Lys	Asp	Phe	Lys	Asp	Asn	Asn	Val	Val	Phe
				245					250					255
Asn	Arg	Phe	Phe	Glu	Met	Lys	Met	Lys	Tyr	Asp	Glu	Ser	Asp	Asn
				260					265					270
Val	Leu	Ile	Arg	Ala	Ser	Arg	Ala	Leu	Thr	Asp	Lys	Val	Thr	Asp
				275					280					285
Leu	Leu	Gly	Gly	Leu	Phe	Ser	Lys	Thr	Glu	Met	Ser	Glu	Val	Leu
				290					295					300
Thr	Glu	Ile	Leu	Arg	Val	Asp	Pro	Thr	Phe	Asp	Lys	Asp	His	Phe
				305					310					315
Leu	His	Gln	Cys	Glu	Thr	Asp	Ile	Ile	Pro	Asn	Ile	Leu	Glu	Ala
				320					325					330
Met	Ile	Ser	Gly	Glu	Leu	Asp	Ile	Leu	Lys	Asp	Trp	Cys	Tyr	Glu
				335					340					345
Ala	Thr	Tyr	Ser	Gln	Leu	Ala	His	Pro	Ile	Gln	Gln	Ala	Lys	Ala
				350					355					360
Leu	Gly	Phe	Gln	Phe	His	Ser	Arg	Ile	Leu	Asp	Ile	Ser	Asn	Val
				365					370					375
Asp	Leu	Ala	Met	Gly	Lys	Met	Met	Glu	Gln	Gly	Pro	Val	Leu	Ile
				380					385					390
Val	Thr	Phe	Gln	Ala	Gln	Val	Val	Met	Val	Ile	Lys	Asn	Ser	Lys
				395					400					405
Gly	Glu	Val	Tyr	Asp	Gly	Asp	Pro	Asp	Lys	Val	Gln	Arg	Met	Leu
				410					415					420
Tyr	Val	Trp	Ala	Leu	Cys	Arg	Asp	Gln	Glu	Glu	Leu	Asn	Pro	Tyr
				425					430					435
Ala	Ala	Trp	Arg	Leu	Leu	Asp	Ile	Ser	Ala	Ser	Ser	Thr	Glu	Gln
				440					445					450

Ile Leu

<210> 26

<211> 223

<212> PRT

<213> Homo sapiens

PF-0595 USN

<220>

<221> misc_feature

<223> GenBank ID No: g3411072

<400> 26

Ala	Ala	Arg	Ser	Leu	Trp	Ala	Val	Gln	Arg	Leu	Gln	Arg	Leu	Leu
1				5					10					15
Ala	Ser	Gly	Ala	Met	Ser	Glu	Ser	Arg	Gly	Trp	Leu	His	Pro	Phe
				20					25					30
Ser	Thr	Ala	Thr	Gln	Arg	Thr	Ala	Gly	Glu	Asp	Cys	Ser	Ser	Glu
				35					40					45
Asp	Pro	Pro	Asp	Gly	Leu	Gly	Pro	Ser	Leu	Ala	Glu	Gln	Ala	Leu
				50					55					60
Arg	Leu	Lys	Ala	Val	Lys	Leu	Glu	Lys	Glu	Val	Gln	Asp	Leu	Thr
				65					70					75
Leu	Arg	Tyr	Gln	Arg	Ala	Val	Ala	Asp	Cys	Glu	Asn	Ile	Arg	Arg
				80					85					90
Arg	Thr	Gln	Arg	Cys	Val	Glu	Asp	Ala	Lys	Ile	Phe	Gly	Ile	Gln
				95					100					105
Ser	Phe	Cys	Lys	Asp	Leu	Val	Glu	Val	Ala	Asp	Ile	Leu	Glu	Lys
				110					115					120
Thr	Ala	Lys	Cys	Cys	Ser	Glu	Gly	Ala	Glu	Pro	Glu	Asp	His	Arg
				125					130					135
Arg	Thr	Leu	Glu	Lys	Val	Phe	Gln	Gly	Leu	Ser	Leu	Leu	Glu	Ala
				140					145					150
Arg	Leu	Lys	Ser	Val	Phe	Thr	Lys	His	Gly	Leu	Glu	Lys	Met	Thr
				155					160					165
Pro	Ile	Gly	Asp	Lys	Tyr	Asp	Pro	His	Glu	His	Glu	Leu	Ile	Cys
				170					175					180
His	Met	Pro	Ala	Gly	Val	Gly	Val	Gln	Pro	Gly	Thr	Val	Ala	Leu
				185					190					195
Val	Arg	Gln	Asp	Gly	Tyr	Lys	Leu	His	Gly	Arg	Thr	Ile	Arg	Leu
				200					205					210
Ala	Gln	Val	Glu	Val	Ala	Val	Glu	Ser	Gln	Arg	Arg	Leu		
				215					220					

<210> 27

<211> 340

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> GenBank ID No: g1816452

<400> 27

Met	Gly	Lys	Asp	Tyr	Tyr	Gln	Thr	Leu	Gly	Leu	Ala	Arg	Gly	Ala
1				5					10					15
Ser	Asp	Glu	Glu	Ile	Lys	Arg	Ala	Tyr	Arg	Arg	Gln	Ala	Leu	Arg
				20					25					30
Tyr	His	Pro	Asp	Lys	Asn	Lys	Glu	Pro	Gly	Ala	Glu	Glu	Lys	Phe
				35					40					45
Lys	Glu	Ile	Ala	Glu	Ala	Tyr	Asp	Val	Leu	Ser	Asp	Pro	Arg	Lys
				50					55					60
Arg	Glu	Ile	Phe	Asp	Arg	Tyr	Gly	Glu	Glu	Gly	Leu	Lys	Gly	Ser
				65					70					75
Gly	Pro	Ser	Gly	Gly	Ser	Gly	Gly	Gly	Ala	Asn	Gly	Thr	Ser	Phe
				80					85					90
Ser	Tyr	Thr	Phe	His	Gly	Asp	Pro	His	Ala	Met	Phe	Ala	Glu	Phe

	95	100	105
Phe Gly Gly Arg Asn Pro Phe Asp Thr	Phe Phe Gly Gln Arg Asn		
110	115	120	
Gly Glu Glu Gly Met Asp Ile Asp Asp	Pro Phe Ser Gly Phe Pro		
125	130	135	
Met Gly Met Gly Gly Phe Thr Asn Val	Asn Phe Gly Arg Ser Arg		
140	145	150	
Ser Ala Gln Glu Pro Ala Arg Lys Lys	Gln Asp Pro Pro Val Thr		
155	160	165	
His Asp Leu Arg Val Ser Leu Glu Glu	Ile Tyr Ser Gly Cys Thr		
170	175	180	
Lys Lys Met Lys Ile Ser His Lys Arg	Leu Asn Pro Asp Gly Lys		
185	190	195	
Ser Ile Arg Asn Glu Asp Lys Ile Leu	Thr Ile Glu Val Lys Lys		
200	205	210	
Gly Trp Lys Glu Gly Thr Lys Ile Thr	Phe Pro Lys Glu Gly Asp		
215	220	225	
Gln Thr Ser Asn Asn Ile Pro Ala Asp	Ile Val Phe Val Leu Lys		
230	235	240	
Asp Lys Pro His Asn Ile Phe Lys Arg	Asp Gly Ser Asp Val Ile		
245	250	255	
Tyr Pro Ala Arg Ile Ser Leu Arg Glu	Ala Leu Cys Gly Cys Thr		
260	265	270	
Val Asn Val Pro Thr Leu Asp Gly Arg	Thr Ile Pro Val Val Phe		
275	280	285	
Lys Asp Val Ile Arg Pro Gly Met Arg	Arg Lys Val Pro Gly Glu		
290	295	300	
Gly Leu Pro Leu Pro Lys Thr Pro Glu	Lys Arg Gly Asp Leu Ile		
305	310	315	
Ile Glu Phe Glu Val Ile Phe Pro Glu	Arg Ile Pro Gln Thr Ser		
320	325	330	
Arg Thr Val Leu Glu Gln Val Leu Pro	Ile		
335	340		